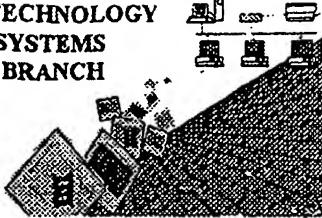


BIOTECHNOLOGY  
SYSTEMS  
BRANCH



## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: US/10/731,642  
Source: PCT  
Date Processed by STIC: 12/30/03

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

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**FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT  
MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221**

**Effective 12/13/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221**

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VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND  
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**Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:**

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
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U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
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Revised 10/08/03



P1

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/731,642

DATE: 12/30/2003  
TIME: 11:57:35

Input Set : A:\PTO.FG.txt  
Output Set: N:\CRF4\12302003\J731642.raw

3 <110> APPLICANT: MENE-SAFFRANE, Laurent  
4 ESQUERRE-TUGAYE, Marie-Therese  
5 FOURNIER, Joelle  
6 BEFFA, Roland  
7 GROSJEAN-COURNOYER Marie-Claire  
9 <120> TITLE OF INVENTION: LIPOXYGENASE OVEREXPRESSION IN PLANTS  
10 AND REDUCTION IN PLANT SENSITIVITY TO  
11 DISEASES AND TO ATTACKS FROM PATHOGENIC  
12 ORGANISMS  
14 <130> FILE REFERENCE: A36097-PCT-USA-A 072667.0192  
C--> 16 <140> CURRENT APPLICATION NUMBER: US/10/731,642  
C--> 17 <141> CURRENT FILING DATE: 2003-12-08  
19 <150> PRIOR APPLICATION NUMBER: PCT/FR02/01943  
20 <151> PRIOR FILING DATE: 2002-06-06

W--> 22 French Patent Application No. filed June 7, 2001 and French Patent Application  
W--> 23 No. FR 01/14358 filed November 7, 2001

25 <150> PRIOR APPLICATION NUMBER: FR 01/07470  
26 <151> PRIOR FILING DATE: 2001-06-07  
28 <150> PRIOR APPLICATION NUMBER: FR 01/14358  
29 <151> PRIOR FILING DATE: 2001-11-07  
31 <160> NUMBER OF SEQ ID NOS: 6  
33 <170> SOFTWARE: Custom  
35 <210> SEQ ID NO: 1  
36 <211> LENGTH: 862  
37 <212> TYPE: PRT  
38 <213> ORGANISM: Nicotiana tabacum  
40 <300> PUBLICATION INFORMATION:  
41 <308> DATABASE ACCESSION NO: X84040

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48 20 25 30  
50 Phe Thr Asp Ile Asn Ala Ser Val Leu Asp Gly Val Leu Glu Phe Leu  
51 35 40 45  
53 Gly Arg Arg Val Ser Leu Glu Leu Ile Ser Ser Val Asn Ala Asp Pro  
54 50 55 60  
56 Ala Asn Gly Leu Gln Gly Lys Arg Ser Lys Ala Ala Tyr Leu Glu Asn  
57 65 70 75 80  
59 Trp Leu Thr Asn Ser Thr Pro Ile Ala Ala Gly Glu Ser Ala Phe Arg  
60 85 90 95  
62 Val Thr Phe Asp Trp Asp Asp Glu Glu Phe Gly Val Pro Gly Ala Phe  
63 100 105 110

Does Not Comply  
Corrected Diskette Needed

*delete (pg.1,4)*

*Mandatory, if <308> is shown  
& <309> must be inserted  
with a response*

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/731,642

DATE: 12/30/2003  
TIME: 11:57:35

Input Set : A:\PTO.FG.txt  
Output Set: N:\CRF4\12302003\J731642.raw

65 Ile Ile Lys Asn Leu His Phe Ser Glu Phe Phe Leu Lys Ser Leu Thr  
66 115 120 125  
68 Leu Glu Asp Val Pro Asn His Gly Lys Val His Phe Val Cys Asn Ser  
69 130 135 140  
71 Trp Val Tyr Pro Ala Asn Lys Tyr Lys Ser Asp Arg Ile Phe Phe Ala  
72 145 150 155 160  
74 Asn Gln Ala Tyr Leu Pro Ser Glu Thr Pro Asp Thr Leu Arg Lys Tyr  
75 165 170 175  
77 Arg Glu Asn Glu Leu Val Thr Leu Arg Gly Asp Gly Thr Gly Lys Leu  
78 180 185 190  
80 Glu Glu Trp Asp Arg Val Tyr Asp Tyr Ala Tyr Tyr Asn Asp Leu Gly  
81 195 200 205  
83 Asp Pro Asp Lys Gly Gln Asp Leu Ser Arg Pro Val Leu Gly Gly Ser  
84 210 215 220  
86 Ser Glu Tyr Pro Tyr Pro Arg Arg Gly Arg Thr Gly Arg Lys Pro Thr  
87 225 230 235 240  
89 Lys Thr Asp Pro Asn Ser Glu Ser Arg Ile Pro Leu Leu Met Ser Leu  
90 245 250 255  
92 Asp Ile Tyr Val Pro Arg Asp Glu Arg Phe Gly His Ile Lys Leu Ser  
93 260 265 270  
95 Asp Phe Leu Thr Phe Ala Leu Lys Ser Ile Val Gln Leu Leu Leu Pro  
96 275 280 285  
98 Glu Phe Lys Ala Leu Phe Asp Ser Thr His Asn Glu Phe Asp Ser Phe  
99 290 295 300  
101 Glu Asp Val Leu Lys Leu Tyr Glu Gly Gly Ile Lys Leu Pro Gln Gly  
102 305 310 315 320  
104 Pro Leu Leu Lys Ala Ile Thr Asp Ser Ile Pro Leu Glu Ile Leu Lys  
105 325 330 335  
107 Glu Leu Leu Arg Ser Asp Gly Glu Gly Leu Phe Lys Tyr Pro Thr Pro  
108 340 345 350  
110 Gln Val Ile Gln Glu Asp Lys Thr Ala Trp Arg Thr Asp Glu Glu Phe  
111 355 360 365  
113 Gly Arg Glu Met Leu Ala Gly Val Asn Pro Val Ile Ile Ser Arg Leu  
114 370 375 380  
116 Gln Glu Phe Pro Pro Lys Ser Lys Leu Asp Pro Lys Ile Tyr Gly Asn  
117 385 390 395 400  
119 Gln Asn Ser Thr Ile Thr Arg Glu Gln Ile Glu Asp Lys Leu Asp Gly  
120 405 410 415  
122 Leu Thr Ile Asp Glu Ala Ile Lys Thr Asn Arg Leu Phe Ile Leu Asn  
123 420 425 430  
125 His His Asp Ile Leu Met Pro Tyr Leu Arg Arg Ile Asn Thr Ser Thr  
126 435 440 445  
128 Asp Thr Lys Thr Tyr Ala Ser Arg Thr Leu Leu Phe Leu Gln Asp Asn  
129 450 455 460  
131 Gly Thr Leu Lys Pro Ser Ala Ile Glu Leu Ser Leu Pro His Pro Asp  
132 465 470 475 480  
134 Gly Asp Gln Phe Gly Ala Val Ser Lys Val Tyr Thr Pro Ala Asp Gln  
135 485 490 495  
137 Gly Val Glu Gly Ser Ile Trp Gln Leu Ala Lys Ala Tyr Ala Ala Val

RAW SEQUENCE LISTING DATE: 12/30/2003  
 PATENT APPLICATION: US/10/731,642 TIME: 11:57:35

Input Set : A:\PTO.FG.txt  
 Output Set: N:\CRF4\12302003\J731642.raw

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141	515	520	525
143	Ala Ala Ile Glu Pro Phe Val Ile Ala Thr Asn Arg Gln Leu Ser Ala		
144	530	535	540
146	Leu His Pro Ile Tyr Lys Leu Leu His Pro His Phe Arg Glu Thr Met		
147	545	550	555
149	Asn Ile Asn Ala Leu Ala Arg Gln Ile Leu Ile Asn Gly Gly Gly Leu		
150	565	570	575
152	Leu Glu Leu Thr Val Phe Pro Ala Lys Tyr Ser Met Glu Met Ser Ala		
153	580	585	590
155	Val Val Tyr Lys Asp Trp Val Phe Pro Glu Gln Ala Leu Pro Thr Asp		
156	595	600	605
158	Leu Ile Lys Arg Gly Val Ala Val Glu Asp Ser Ser Ser Pro Leu Gly		
159	610	615	620
161	Ile Arg Leu Leu Ile Gln Asp Tyr Pro Tyr Ala Val Asp Gly Leu Lys		
162	625	630	635
164	Ile Trp Ser Ala Ile Lys Ser Trp Val Thr Glu Tyr Cys Asn Tyr Tyr		
165	645	650	655
167	Tyr Lys Ser Asp Asp Ala Val Gln Lys Asp Thr Glu Leu Gln Ala Trp		
168	660	665	670
170	Trp Lys Glu Leu Arg Glu Glu Gly His Gly Asp Lys Lys Asp Glu Pro		
171	675	680	685
173	Trp Trp Pro Lys Met Gln Thr Val Gln Glu Leu Ile Asp Ser Cys Thr		
174	690	695	700
176	Ile Thr Ile Trp Ile Ala Ser Ala Leu His Ala Ala Val Asn Phe Gly		
177	705	710	715
179	Gln Tyr Pro Tyr Ala Gly Tyr Leu Pro Asn Arg Pro Thr Leu Ser Arg		
180	725	730	735
182	Asn Phe Met Pro Glu Pro Gly Ser Pro Glu Tyr Glu Glu Leu Lys Thr		
183	740	745	750
185	Asn Pro Asp Lys Val Phe Leu Lys Thr Ile Thr Pro Gln Leu Gln Thr		
186	755	760	765
188	Leu Leu Gly Ile Ser Leu Ile Glu Ile Leu Ser Arg His Ser Ser Asp		
189	770	775	780
191	Thr Leu Tyr Leu Gly Gln Arg Glu Ser Pro Glu Trp Thr Lys Asp Gln		
192	785	790	795
194	Glu Pro Leu Ser Ala Phe Ala Arg Phe Gly Lys Lys Leu Ser Asp Ile		
195	805	810	815
197	Glu Asp Gln Ile Met Gln Met Asn Val Asp Glu Lys Trp Lys Asn Arg		
198	820	825	830
200	Ser Gly Pro Val Lys Val Pro Tyr Thr Leu Leu Phe Pro Thr Ser Glu		
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208	<211> LENGTH: 3390		
209	<212> TYPE: DNA		
210	<213> ORGANISM: Artificial sequence		

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/731,642

DATE: 12/30/2003  
TIME: 11:57:35

Input Set : A:\PTO.FG.txt  
Output Set: N:\CRF4\12302003\J731642.raw

212 <220> FEATURE:  
 213 <223> OTHER INFORMATION: Artificial sequence description: *delete*  
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 218 <222> LOCATION: (1)..(532)  
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 229 <223> OTHER INFORMATION: Nos terminator  
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 234 agttcataca gagtctctta cgactcaatg acaagaagaa aatcttcgtc aacatggtg 120  
 236 agcacgacac gcttgtctac tccaaaaata tcaaagatac agtctcagaa gaccaaagg 180  
 238 caatttgagac tttcaacaa aggtaatat ccggaaacct cctcgattc cattgcccag 240  
 240 ctatctgtca ctttattgtg aagatagtgg aaaaggaagg tggctctac aaatgccatc 300  
 242 attgcgataa agggaaaggcc atcgttgaag atgcctctgc cgacagtgg cccaaagatg 360  
 244 gaccccccacc caccggggc atcgtggaaa aagaagacct tccaaccacg tcttcaaagc 420  
 246 aagtggattt atgttatc tccactgacg taagggatga cgacacaatcc cactatcctt 480  
 248 cgcaagaccc ttccctctat aaggaagttc attcatttg gagaggacac gcggtagccca 540  
 250 aa atg ttt ctg gag aag att gtg gat gca atc aca ggg aaa gat gat 587  
 251 Met Phe Leu Glu Lys Ile Val Asp Ala Ile Thr Gly Lys Asp Asp  
 252 1 5 10 15  
 254 gga aaa aag gta aaa gga aca gtg gtt ttg atg aag aaa aat gtt ttg 635  
 255 Gly Lys Lys Val Lys Gly Thr Val Val Leu Met Lys Lys Asn Val Leu  
 256 20 25 30  
 258 gat ttt act gat att aat gcc tca gtt ctt gat gga gtt ctt gag ttc 683  
 259 Asp Phe Thr Asp Ile Asn Ala Ser Val Leu Asp Gly Val Leu Glu Phe  
 260 35 40 45  
 262 ctt ggt cgg agg gtc tct ctc gag ttg atc agt tct gtt aat gct gat 731  
 263 Leu Gly Arg Arg Val Ser Leu Glu Leu Ile Ser Ser Val Asn Ala Asp  
 264 50 55 60  
 266 cct gca aat ggt tta caa ggg aaa cgc agc aaa gca gca tat ttg gag 779  
 267 Pro Ala Asn Gly Leu Gln Gly Lys Arg Ser Lys Ala Ala Tyr Leu Glu  
 268 65 70 75  
 270 aac tgg cta aca aat agc acc cca ata gca gca ggt gaa tca gca ttt 827  
 271 Asn Trp Leu Thr Asn Ser Thr Pro Ile Ala Ala Gly Glu Ser Ala Phe  
 272 80 85 90 95  
 274 aga gtc aca ttt gat tgg gat gag gaa ttt gga gtt cca gga gca 875  
 275 Arg Val Thr Phe Asp Trp Asp Asp Glu Glu Phe Gly Val Pro Gly Ala  
 276 100 105 110  
 278 ttc att atc aag aac ttg cat ttt agt gag ttc ttc ctc aag tca ctc 923  
 279 Phe Ile Ile Lys Asn Leu His Phe Ser Glu Phe Phe Leu Lys Ser Leu  
 280 115 120 125

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/731,642

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Input Set : A:\PTO.FG.txt  
Output Set: N:\CRF4\12302003\J731642.raw

282 acc ctt gaa gat gtt cct aat cat ggc aaa gtt cat ttt gtc tgt aat	971
283 Thr Leu Glu Asp Val Pro Asn His Gly Lys Val His Phe Val Cys Asn	
284 130 135 140	
286 tct tgg gtt tat cct gct aat aaa tat aag tca gat cgc atc ttc ttc	1019
287 Ser Trp Val Tyr Pro Ala Asn Lys Tyr Lys Ser Asp Arg Ile Phe Phe	
288 145 150 155	
290 gcg aat cag gct tat cta cca agt gaa aca cca gac aca ttg cga aaa	1067
291 Ala Asn Gln Ala Tyr Leu Pro Ser Glu Thr Pro Asp Thr Leu Arg Lys	
292 160 165 170 175	
294 tac aga gaa aat gaa tta gta acc tta aga gga gat gga act gga aag	1115
295 Tyr Arg Glu Asn Glu Leu Val Thr Leu Arg Gly Asp Gly Thr Gly Lys	
296 180 185 190	
298 ctt gag gaa tgg gat aga gtt tat gac tat gct tac tac aat gac ttg	1163
299 Leu Glu Glu Trp Asp Arg Val Tyr Asp Tyr Ala Tyr Tyr Asn Asp Leu	
300 195 200 205	
302 ggt gat cca gac aaa ggc caa gat ttg tca agg cct gtc tta gga gga	1211
303 Gly Asp Pro Asp Lys Gly Gln Asp Leu Ser Arg Pro Val Leu Gly Gly	
304 210 215 220	
306 tct tct gag tac ccg tat cct cgt aga ggc agg aca ggc cgc aaa cca	1259
307 Ser Ser Glu Tyr Pro Tyr Pro Arg Arg Gly Arg Thr Gly Arg Lys Pro	
308 225 230 235	
310 acc aaa aca gat cct aat tcc gag agc agg att cca ttg ctt atg agc	1307
311 Thr Lys Thr Asp Pro Asn Ser Glu Ser Arg Ile Pro Leu Leu Met Ser	
312 240 245 250 255	
314 tta gac ata tat gtg cca agg gac gag cga ttt ggt cat ata aag ttg	1355
315 Leu Asp Ile Tyr Val Pro Arg Asp Glu Arg Phe Gly His Ile Lys Leu	
316 260 265 270	
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319 Ser Asp Phe Leu Thr Phe Ala Leu Lys Ser Ile Val Gln Leu Leu Leu	
320 275 280 285	
322 cct gag ttt aag gct ttg ttc gat agc acg cat aat gag ttt gat agt	1451
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326 ttt gag gat gta ctt aaa ctg tat gaa gga gga atc aag ttg cct caa	1499
327 Phe Glu Asp Val Leu Lys Leu Tyr Glu Gly Gly Ile Lys Leu Pro Gln	
328 305 310 315	
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331 Gly Pro Leu Leu Lys Ala Ile Thr Asp Ser Ile Pro Leu Glu Ile Leu	
332 320 325 330 335	
334 aaa gaa ctc ctt cga agt gat ggt gaa ggc cta ttt aag tac cca act	1595
335 Lys Glu Leu Leu Arg Ser Asp Gly Glu Gly Leu Phe Lys Tyr Pro Thr	
336 340 345 350	
338 cct cag gtt att caa gag gat aaa act gca tgg agg acg gat gaa gaa	1643
339 Pro Gln Val Ile Gln Glu Asp Lys Thr Ala Trp Arg Thr Asp Glu Glu	
340 355 360 365	
342 ttt ggg aga gaa atg ttg gcg gga gtc aat cct gtc ata atc agt aga	1691
343 Phe Gly Arg Glu Met Leu Ala Gly Val Asn Pro Val Ile Ile Ser Arg	
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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/731,642

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Input Set : A:\PTO.FG.txt  
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Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 22

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/731,642

DATE: 12/30/2003

TIME: 11:57:36

Input Set : A:\PTO.FG.txt

Output Set: N:\CRF4\12302003\J731642.raw

L:16 M:270 C: Current Application Number differs, Replaced Application Number  
L:17 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:22 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE:  
L:23 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE:  
L:43 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:1